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FACT SHEET

United States Air Force

OFFICE OF PUBLIC AFFAIRS, AIR FORCE SYSTEMS COMMAND, ANDREWS AFB, MD 20334-5000, (301) 981-4135

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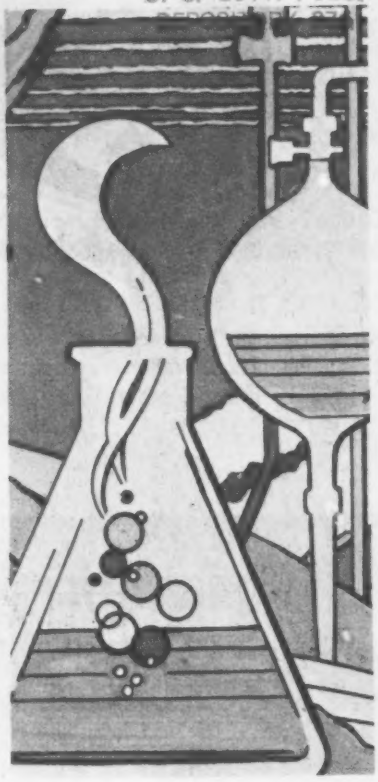
AIR FORCE SYSTEMS COMMAND



The AFSC emblem represents "system" and symbolizes the command's mission. The arrow emerging from the unbroken circle draws together diverse elements through management, uniting and orienting them in direction and purpose. The lower portion of the arrow represents the command's research and development resources. The middle of the arrow represents system management procedures that unite those resources. The top of the arrow represents the operational systems that result when the process is complete.

(PA No. 006.85 -- Current as of May 1985)

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MISSION

The mission of Air Force Systems Command (AFSC) is to advance aerospace science and technology and to develop and acquire reliable, maintainable and logistically supportable aeronautical and space systems at the lowest cost.

AFSC also handles the major aerospace responsibilities of the Department of Defense (DOD). These include research, development, testing and evaluation of satellites, boosters, space probes and associated systems needed to support specific National Aeronautics and Space Administration projects and programs arising from agreements between DOD and other government agencies.

From its headquarters at Andrews AFB, MD, near the nation's capital, AFSC's commander directs the operations of a number of divisions, laboratories, test centers and ranges. The command has approximately 12,400 officers, 16,000 airmen and 29,200 civilians. Approximately 38 percent of the command's officers hold advanced degrees; three percent have earned doctorates.

AFSC manages an annual budget of approximately $34 billion -- nearly one-third of the Air Force budget. The command administers more than 42,000 contracts with a total face value of more than $100 billion.

SPACE DIVISION (SD)

LOS ANGELES AFS, CA--The Space Division manages the research and development, acquisition, launch and on-orbit command and control of DOD space systems. The division is the focal point for Space Transportation System activities within DOD. From its Los Angeles headquarters and through its worldwide field units, the Space Division:

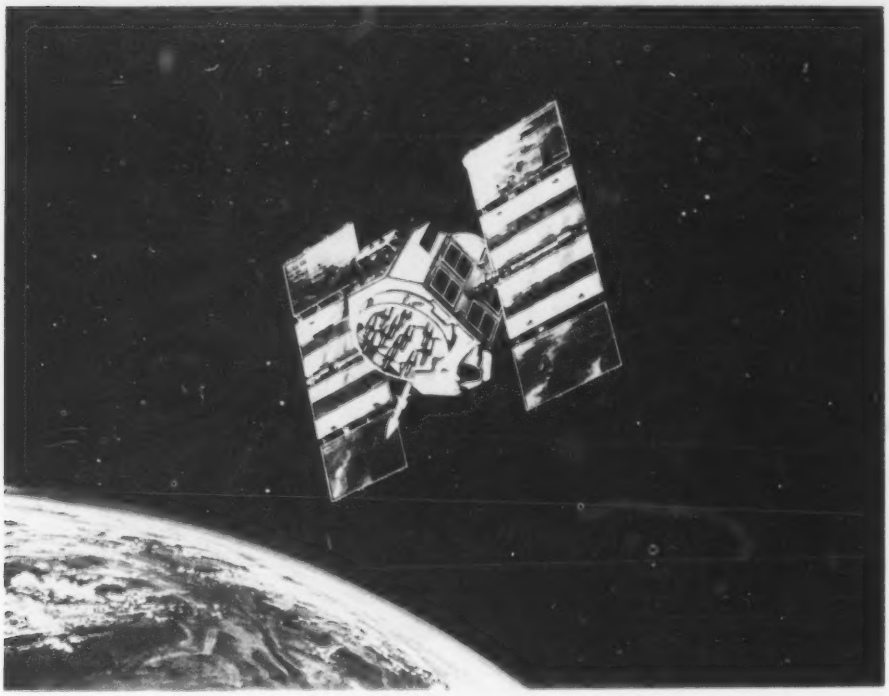
--Develops spacecraft, launch vehicles and ground support equipment to maintain and improve military space capabilities.

--Manages launch and control of satellites for DOD and other government agencies.

--Identifies and develops space systems concepts and technological alternatives to satisfy future military needs.

--Manages operations of the Space and Missile Test Organization, the Air Force Satellite Control Facility, the Air Force Space Technology Center, and the Manned Space Flight Support Group.

Space Division activities are managed by technical program offices for defense meteorological satellites, space navigation systems, technology, space communications, launch vehicles (including the Space Shuttle), space defense systems, the satellite data system and defense support systems.



Detachment 2, Manned Spaceflight Support Group

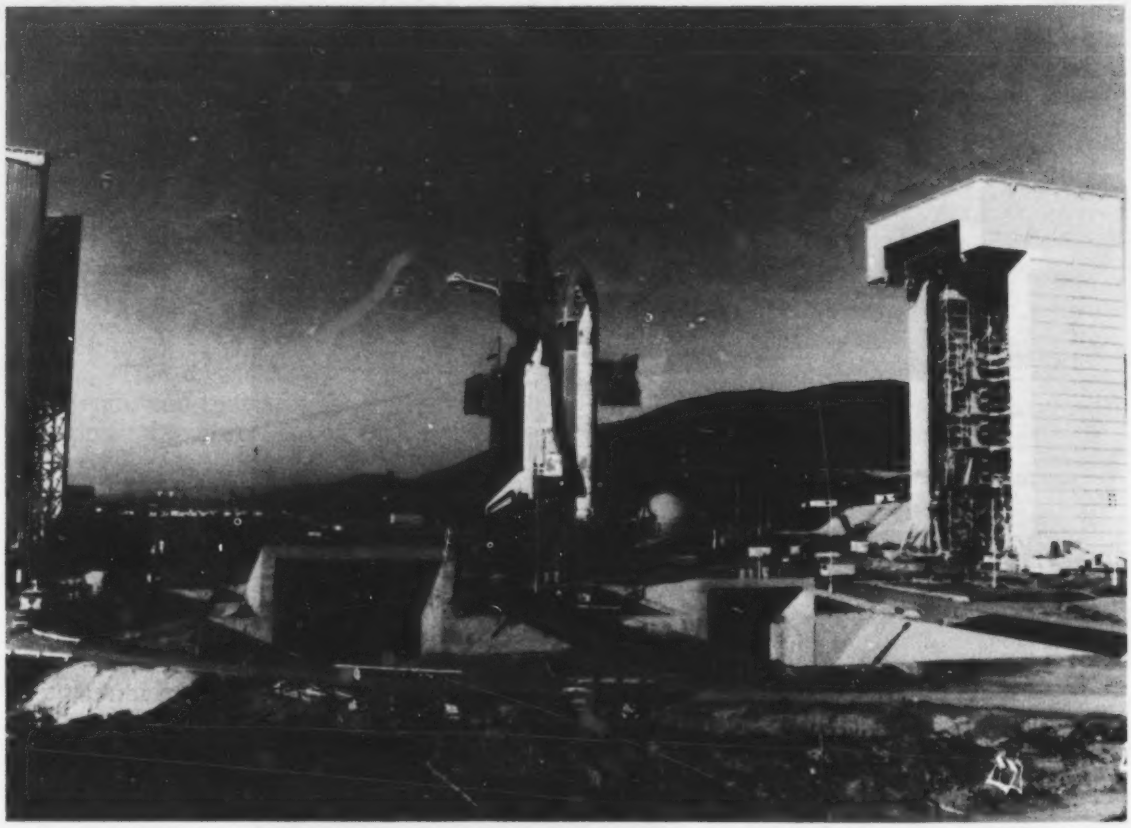
HOUSTON, TX--The Manned Spaceflight Support Group, located at the Johnson Space Center in Houston, was activated in June 1979. The group and NASA work together on mission planning for Space Shuttle flights that carry military payloads. Air Force personnel train to participate in joint NASA-DOD Shuttle operations.

Air Force Satellite Control Facility (AFSCF)

SUNNYVALE AFS, CA--AFSCF operates a worldwide network of tracking stations to perform on-orbit tracking, data acquisition and control of DOD space vehicles.

SPACE AND MISSILE TEST ORGANIZATION (SAMTO)

VANDENBERG AFB, CA--SAMTO provides test management for all DOD-directed ballistic and space programs, operates the Eastern and Western Space and Missile Centers and conducts launch operations at both Vandenberg AFB, CA and Cape Canaveral AFS, FL. SAMTO activities support Space Division test programs, the Ballistic Missile Office and other military and government agencies. The following centers comprise the Space and Missile Test Organization:



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Western Space and Missile Center (WSMC)

VANDENBERG AFB, CA--WSMC conducts polar-orbit space launch operations employing Titan III and Atlas space boosters. It will manage the Space Transportation System operations scheduled to begin in 1986 at Vandenberg. Launching Minuteman I missiles, the center conducts research and development activities for Air Force advanced reentry vehicles. Tests of the advanced Peacekeeper ICBM are being conducted at Vandenberg.

WSMC operates the Western Test Range from the California coast to the Indian Ocean where it joins the Eastern Test Range. The range supports ballistic, space, and aeronautical tests and operations.

Eastern Space and Missile Center (ESMC)

PATRICK AFB, FL--ESMC launches the Titan III space booster and represents DOD interests in Space Shuttle operations from the Kennedy Space Center. ESMC operates Patrick AFB with a work force of more than 13,000 people. The base is shared with some 50 tenant organizations from nearly every major command, other units and major government agencies. Tenant organization missions range from equal opportunity management instruction to geodetic surveys, from flight training to nuclear test ban monitoring, and from weather rocket training to air rescue and recovery.

ESMC operates the Eastern Test Range which stretches from the Florida coast into the Indian Ocean where it joins the Western Test Range forming a worldwide network. Tracking and data-gathering stations are located on the islands of Grand Bahama, Antigua and Ascension with other locations supporting the range's Pacific operations. The range supports ballistic, space, and aeronautical tests and operations.

AIR FORCE SPACE TECHNOLOGY CENTER (AFSTC)

KIRTLAND AFB, NM--The Air Force Space Technology Center was established in 1982 to provide a focal point for Air Force space research and technology programs. The AFSTC has three subordinate laboratories (discussed below), and also directly manages selected technology development programs for AFSC's space technology planning effort.

Air Force Geophysics Laboratory (AFGL)

HANSCOM AFB, MA--AFGL conducts research, exploration and advanced development in geophysics with the goal of understanding, mitigating and, where possible, exploiting terrestrial, meteorological, upper atmosphere, stratosphere, ionosphere, space and optical/infrared (IR) environments and their effects on Air Force systems.

The laboratory's investigations cover a broad range of areas including space radiation, Shuttle environment specification, and target signatures. Environmental programs are performed for a variety of government agencies. These programs include nuclear modeling for the Defense Nuclear Agency and gravity measurement for the Defense Mapping Agency.

Air Force Weapons Laboratory (AFWL)

KIRTLAND AFB, NM--AFWL conducts research and development programs in laser and particle beam technology, nuclear weapons effects and safety, and nuclear survivability/vulnerability.

The laboratory is developing the generic technology for high energy lasers, such as advanced optics and high efficiency long- range laser devices. The lab develops, manages and coordinates projects to advance nuclear survivability/vulnerability technology.

Air Force Rocket Propulsion Laboratory (AFRPL)

EDWARDS AFB, CA--AFRPL plans and conducts research, exploratory development and advanced development to provide timely rocket propulsion technology options for Air Force systems. The AFRPL program comprises more than half of the national investment in rocket propulsion technology.

Doing basic research, AFRPL provides materials, data and analytical tools for exploratory development programs. This area includes synthesis of propellant mechanics, combustion, characterization of rocket exhaust plumes and solid rocket nozzle material studies.

Exploratory development comprises the major portion of the AFRPL program. Its major thrusts include reducing development risks for the Peacekeeper ICBM, providing options for air-launched tactical missiles and demonstrating higher performance space motor and satellite thrusters.

Among the many systems which are using AFRPL's technology are missiles such as Minuteman, Titan, Sidewinder and the Short Range Attack Missile and Air Force communications and surveillance satellites. Work also has been done for NASA's Apollo and Space Shuttle programs.

ELECTRONIC SYSTEMS DIVISION (ESD)

HANSCOM AFB, MA--ESD is responsible for development, acquisition and delivery of electronic systems and equipment for the command, control and communications functions of aerospace forces.

These systems take many forms, such as a joint U.S.-Canada network of combined civilian/military radar sites which simultaneously control civil air traffic and insure air sovereignty; a major updating of the underground North American Aerospace Defense Command (NORAD) combat operations center; long-range radars on both the east and west coasts to warn of missile and aircraft attack; satellite communications terminals for ground, mobile and aircraft use; and a new airborne radar and communications post which can give the Air Force an instant air defense and tactical control system anywhere in the world.

Rome Air Development Center (RADC)

RADC is the organization charged with Air Force research and development programs to advance technology in command, control, communications and intelligence.

The center also demonstrates selected systems and subsystems in the areas of intelligence, reconnaissance, mapping and charting, and command, control and communications.

RADC provides technical support to technology intensive command, control, communications and intelligence programs at AFSC product divisions and other Air Force and DOD agencies.

AERONAUTICAL SYSTEMS DIVISION (ASD)

WRIGHT-PATTERSON AFB, OH--ASD provides management control for the development and acquisition of aeronautical systems. ASD manages funds for aircraft, missiles and related equipment, including research and development efforts covering a multitude of programs and projects. The division also manages a substantial amount of funds for foreign military sales.

Typical of the wide range of systems presently under ASD management are strategic programs such as B-52 offensive avionics and integration of the Air Launched Cruise Missile with the B-52; the F-15 dual role fighter; the F-16 developed as a multi-role complement to the more sophisticated F-15; the A-10 aircraft, specifically designed for the close-air support mission; remotely piloted vehicles; night attack systems; T-46 trainer; alternate fighter engines; and the Maverick air-to-surface missile. More recently, ASD's responsibilities have included the B-1B and the advanced tactical fighter, a revolutionary concept for air superiority.

ASD's many other efforts include developing and acquiring training simulators, reconnaissance, strike and electronic warfare systems, air-to-air and air-to-surface missiles, airlift and tanker aircraft, chemical warfare defense and life support equipment.

4950th Test Wing

WRIGHT-PATTERSON AFB, OH--The 4950th Test Wing has 41 test and evaluation aircraft. Many of the Wing's aircraft are flying labs and conduct flight testing of electronic countermeasures, advanced navigation, satellite communication, improved radar, electro-optical devices, surface-to-air detection systems and environmental research. Other aircraft are specially equipped to receive and relay telemetry data for missile and satellite programs.

In addition, the Wing manages the largest precision measurement equipment laboratory in the Air Force and is the major research and development aircraft modification center for AFSC. This expansive organization has the engineers, craftsmen and facilities to design, procure, fabricate and install temporary research and development modifications on test aircraft. Experienced craftsmen build prototype and experimental equipment to support laboratory research and development.

Air Force Wright Aeronautical Laboratories (AFWAL)

WRIGHT-PATTERSON AFB, OH--AFWAL combines common laboratory management and support functions and provides a command and staff element for its four functional laboratories: Avionics, Aero Propulsion, Flight Dynamics and Materials.

AFWAL's mission is to plan and carry out Air Force research, exploratory and advanced development, and selected engineering development through its four labs. AFWAL also provides certain technical support to DOD and other federal agencies for planning, developing and operating aerospace systems.

Avionics Laboratory

The Avionics Laboratory develops electronic technologies for airborne systems. Research is centered around reconnaissance, weapons delivery, navigation, electronic components, communications, electronic warfare and software. This technology is used to develop radar and electro-optic sensors, fire control computers, precision inertial reference systems, miniaturized digital memories, signal processing warning receivers, adaptive jammers, and information processing systems.

The laboratory's activities run from concept definition through the building of hardware for technology demonstration. The laboratory has a number of facilities at its disposal to support its research programs.

The lab has provided vital technology, including the radar for the B-1B, a standard avionics computer set for use in dozens of systems, and flares to protect aircraft from heat-seeking missiles.

Aero Propulsion Laboratory

The Aero Propulsion Laboratory plans and conducts basic research, exploratory development, and advanced development programs in airbreathing propulsion, aerospace power, and fuels, lubrication and fire protection technology. It also manages the technologies of supersonic thrust for the Wright Aeronautical Laboratories.

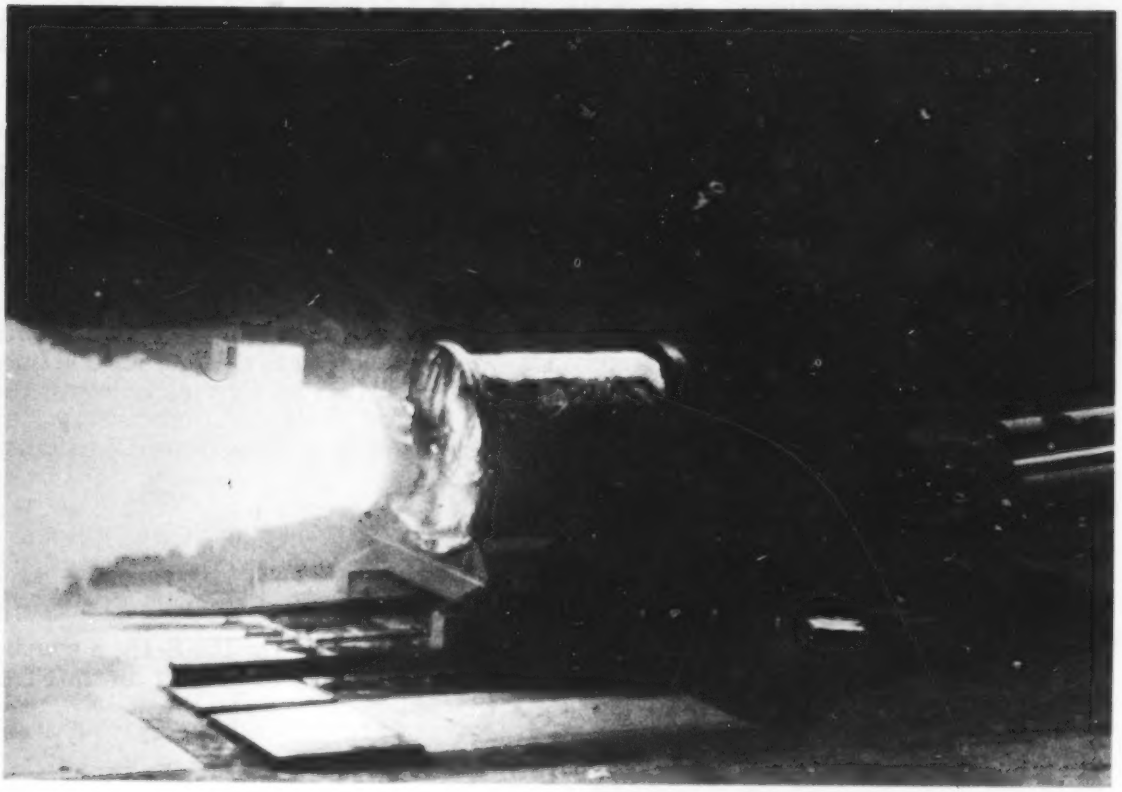
The lab directs programs to advance the technical potential of turbopropulsion systems, ranging from research efforts in turbomachinery aerodynamics, heat transfer and structures to management of two major advanced development programs: the Advanced Turbine Engine Gas Generator Program and the Aircraft Propulsion Subsystem Integration Program.

The lab also directs programs in liquid and solid fuel ramjet engines, ducted rockets, and related mixed cycle engines.

Flight Dynamics Laboratory

The Flight Dynamics Laboratory develops technology for design and fabrication of future aerospace weapon systems. The laboratory also conducts configuration research of advanced flight vehicles to demonstrate new technologies.

The laboratory is the Air Force focal point for non-nuclear survivability/vulnerability, and atmospheric electrical hazards. It is also the national center for landing gear and tire testing and flight control development. The laboratory has extensive facilities to support its mission.



Air Force Materials Laboratory

The Air Force Materials Laboratory conducts the entire Air Force Materials Exploratory Development program, the Air Force Manufacturing Technology program and selected Advanced Development and Research programs.

The specific goal of the laboratory is to establish and conduct major integrated programs which will significantly reduce acquisition and ownership costs of Air Force Systems.

AIR FORCE ACQUISITION LOGISTICS CENTER

The Air Force Acquisition Logistics Center (AFALC), Wright-Patterson AFB, Ohio, is a separate operating agency that receives technical guidance from Air Force Systems Command and Air Force Logistics Command. Its mission is to improve force readiness and reduce life cycle costs of Air Force weapons systems.

AFALC helps AFSC product divisions develop logistics requirements to ensure that supportable, reliable and maintainable systems, subsystems and equipment are acquired and fielded. AFALC support begins in the pre-conceptual phase and extends through the production phase of new systems.

The Center's deputy program managers for logistics and integrated logistics support managers are professional logisticians assigned to AFSC system program offices. Their role is to plan, budget and execute logistics on all acquisition programs with AFSC and make modifications for AFLC when needed.

AFALC provides lessons learned from past and current operating systems and components to program managers developing similar systems. With personnel assigned to both systems development and support organizations, the Center helps prevent problems by using up-front logistics.

AFALC and ASD jointly manage and staff two other organizations: the Productivity, Reliability, Availability and Maintainability Program Office (PRAM) and the Deputy for Avionics Control. PRAM invests in life cycle cost reduction projects by applying current technology to improve the reliability and maintainability of operational weapon systems and equipment, and to increase maintenance productivity. The Deputy for Avionics Control provides a single Air Force focal point for controlling all Air Force avionics efforts.

ARMAMENT DIVISION (AD)

EGLIN AFB, FL--AD is a major product division whose primary mission is to develop, test, and initially acquire all non-nuclear air armament for the Air Force's tactical and strategic forces. This mission encompasses the spectrum of weapons system development from research technology advancement and development planning to the acquisition of armament.

Development activities that advance armament science and technology are conducted in four phases: basic research, exploratory development, advanced development and engineering development. The division performs the air armament acquisition process from conceptual planning to initial production of military hardware. This fulfills the operational armament needs of the tactical and strategic arms of the Air Force. The division discharges the various aspects of its mission through the three principal subordinate organizations: the Air Force Armament Laboratory (basic research and exploration development), the Deputy Commander for Research, Development and Acquisition (advanced and engineering development and initial acquisition), and the 3246th Test Wing (developmental test and evaluation).

Air Force Armament Laboratory (AFATL)

EGLIN AFB, FL--AFATL is the principal Air Force laboratory performing research and development of non-nuclear munition, weapon carriage and release equipment and airborne targets and scorers. Its efforts provide the future technological base for aircraft armament. These include chemical and fuel-air explosives, energy sources and conversions, electronic and mechanical devices, bombs, dispensers, fuses, flares, guns and ammunition.

The scope of AFATL activities includes technical support and consulting services to Air Force developers, other government agencies, and to joint international cooperation, standardization and development efforts.

DEPUTY COMMANDER FOR RESEARCH, DEVELOPMENT, AND ACQUISITION

EGLIN AFB, FL--The main business of the Deputy Commander for Research, Development, and Acquisition (AD/CZ) is developing and acquiring non-nuclear munitions for the Air Force. AD/CZ is organized into numerous system program offices (SPO's) to discharge this mission for such items as air-launched tactical and air defense missiles, guided weapons, aircraft guns and ammunition, targets and related armament support equipment. AD/CZ is also the integration manager for RDT&E programs contributing to air base survivability. AFATL is organizationally assigned to AD/CZ, as well.

3246th TEST WING

EGLIN AFB, FL--All of Armament Division's developmental test and evaluation activities are centralized under the 3246th Test Wing. The wing provides the developmental test and evaluation of non-nuclear air armament for the Air Force. This includes air-launched tactical and air defense missiles, guided weapons, non-nuclear munitions, aircraft guns and ammunition, and aerial targets, and also includes test and evaluation of electronic combat (EC) systems and climatic simulation. Support is provided for operational training, operational test and evaluation of armament and EC systems, and other activities conducted by operational commands. The aircraft munition compatibility, analysis, and prediction services formerly provided by AFATL are now performed by the 3246th Test Wing.

The 3246th Test Wing owns and operates the Eglin Range Complex. The range complex consists of more than 720 square miles (1875 sq km) of land ranges and facilities and has access to more than 86,500 sq mi (224,035 sq km) of test area in the eastern Gulf of Mexico.

The Armament Systems Test Environment (ASTE) consists of varied multi-environmental land test areas, instrumentation, and airborne capability needed for air armament DT&E/OT&E. Twenty-seven highly instrumented land test areas are dedicated to air-to-surface testing. Low and high altitude and supersonic flight profiles can be accommodated. Included are the static arenas for warhead and lethality evaluations, aircraft gun test areas, a 2000-foot dual-rail sled track, and numerous air-to-surface test areas.

The Electromagnetic Test Environment (EMTE) is a highly instrumented simulated hostile defense system consisting of tracking, search and heightfinder radars operating in different frequency bands and modes. The complex system can separately or simultaneously support noise/deception jammer evaluations, dynamic chaff/aircraft reflectivity measurements, RF/optical countermeasures evaluations, dynamic antenna pattern measurements, and tactics evaluation.

The 3246th Test Wing, through its subordinate 6585th Test Group at Holloman AFB, NM, operates the 50,000 foot (15.5 km) High Speed Sled Test Track, the Central Inertial Guidance Test Facility, and the Radar Target Scatter (RATSCAT) Facility. The 6586th Test Squadron assists Air Force programs with testing on White Sands Missile Range (WSMR), and the WSMR Deputy for Air Force manages WSMR airspace and conducts WSMR/FAA coordination for the U. S. Army.

BALLISTIC MISSILE OFFICE (BMO)

NORTON AFB, CA--BMO plans, implements and manages Air Force ballistic missile systems and subsystem programs. BMO also carries out systems development functions for tri-service advanced ballistic reentry vehicle requirements.

BMO is managing the development of the Peacekeeper weapon system, a new survivable land-based ICBM that is expected to be deployed initially in 1986. Concept definitions and preliminary feasibility analyses are being performed on next generation survivable ICBM basing modes. The office is also managing the definition and initial development of the new small ICBM, a single-warhead land-based ICBM that will be deployed initially in 1992.

BMO is also continuing to manage the modernization and force improvements for the existing ICBM weapon systems.

The Advanced Strategic Missile Systems program office is responsible for the conceptualization and evaluation of the next generation of ICBMs and related reentry vehicles.

The ICBM acquisition approach differs from many other programs because BMO acts as "prime contractor," working with more than 25 associated contractors to develop the missile and basing components of the ICBM weapon systems.

FOREIGN TECHNOLOGY DIVISION (FTD)

WRIGHT-PATTERSON AFB, OH -- To prevent possible technological surprise by a potential enemy, FTD acquires, evaluates, analyzes and disseminates information about foreign aerospace technology to other units. This activity is accomplished in concert with other divisions, laboratories and centers.

Information collected from a wide variety of sources is screened in unique data and laboratory processing equipment. Then, scientific and technical specialists analyze it and prepare reports, studies and technical findings as well as assessments of possible hostile technological or operational environments in which Air Force weapon systems can be expected to operate. FTD provides foreign technology support for aerospace and other systems research and development activities.

AIR FORCE CONTRACT MANAGEMENT DIVISION (AFCMD)

KIRTLAND AFB, NM--AFCMD is responsible for DOD contract management activities on those plants assigned to the Air Force under the DOD National Plant Cognizance Program. AFCMD evaluates contractor performance and administration of contracts executed by Air Force, Army, Navy, Defense Supply Agency, NASA and other government purchasing agencies when required.

CONTRACT MANAGEMENT LOCATIONS

CONTRACT MANAGEMENT LOCATIONS

ALBUQUERQUE, NM
HQ AFCMD, Kirtland AFB

BALTIMORE, MD
Westinghouse Electric Corp.

BRIGHAM CITY, UT
Thiokol Corp

CINCINNATI, OH
General Electric Co.

COLUMBUS, OH
Rockwell International, OL-AB

DEER PARK, NY
Eaton AIL Div

DENVER, CO
Martin-Marietta Aerospace

EAST HARTFORD, CT
Pratt & Whitney Aircraft Gp.

FARMINGDALE, NY
Fairchild Republic Co.

F. E. WARREN AFB, WY
ICBM Det 50

FT. WORTH, TX
General Dynamics Corp.

LOS ANGELES, CA
Douglas Aircraft Co., Long Beach
Hughes Aircraft Co.
Northrop Corp., Hawthorne
Rockwell International (RI), Anaheim
RI, North American Aircraft Opns, El Segundo
RI, Rocketdyne Div., Canoga Park
TRW Electronics & Defense Sector, Redondo Beach

MARIETTA, GA
Lockheed Georgia Co.

PALMDALE, CA
Air Force Plant 42

PHILADELPHIA, PA
General Electric Co.

SACRAMENTO, CA
Aerojet-General Corp.

SEATTLE, WA
Boeing Co.

SUNNYVALE, CA
Chemical Systems Div., San Jose
Lockheed Missile & Space Co.

TUSCON, AZ
Hughes-Tuscon

WEST PALM BEACH, FL
Pratt & Whitney Aircraft Gp.

WICHITA, KS
Boeing Military Airplane Co.

WILMINGTON, MA
Avco Systems Div.

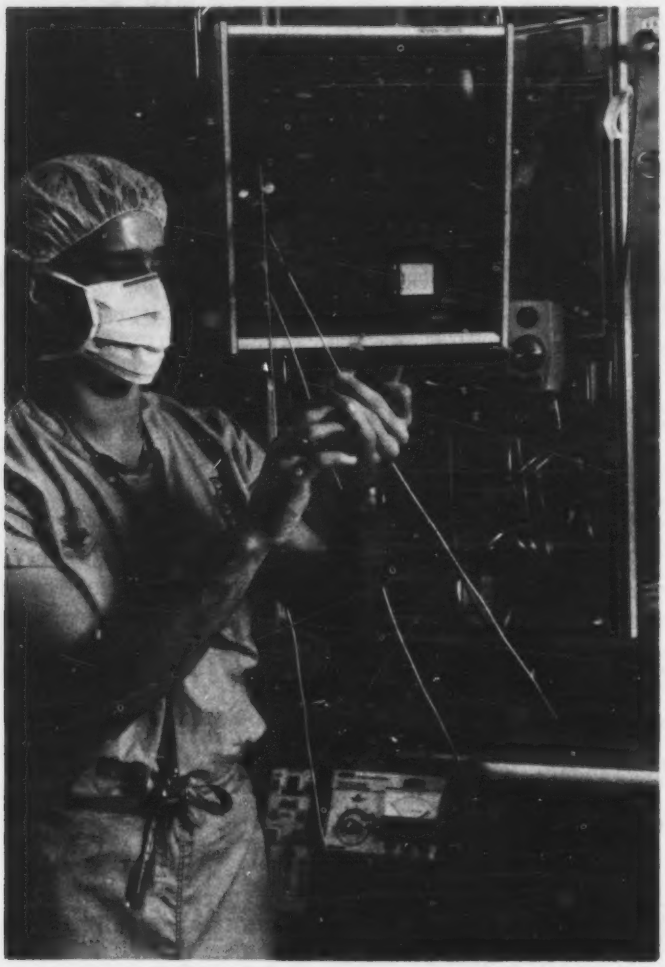
BRUSSELS, Belgium
F-16 Contract Administration & Support Europe (CASEUR)

AFCMD furnishes technical and management direction for contract administration, production and manufacturing improvements, quality assurance, transportation, safety and flight operations through Air Force Plant Representative Offices (AFPROs) located at major defense contractor facilities.

AEROSPACE MEDICAL DIVISION (AMD)

BROOKS AFB, TX--AMD has four closely interrelated missions: research and development, medicine, education, and occupational and environmental health. Within these mission areas, AMD conducts biotechnology research and development, medical evaluations, consultation and clinical studies, and personnel/training research and development. AMD's personnel provide support to the field organizations in occupational, radiological and environmental health programs.

To accomplish the diverse and challenging tasks in these areas, AMD relies on the talented personnel of the: USAF School of Aerospace Medicine, Air Force Human Resources Laboratory, Air Force Drug Testing Laboratory, and the USAF Occupational and Environmental Health Laboratory, all at Brooks AFB; the Air Force Aerospace Medical Research Laboratory at Wright-Patterson AFB, OH; and Wilford Hall Medical Center at Lackland AFB, TX.



USAF School of Aerospace Medicine (USAFSAM)

BROOKS AFB, TX--Within the broad AMD mission, the School of Aerospace Medicine conducts biotechnology research and development, medical evaluation and education, consultation, and aeromedical support for the USAF. Highly trained personnel accomplish laboratory and clinical studies in the areas of aerospace medicine, radiation hazards and advanced crew technology to increase the performance of the Air Force member in his or her environment. Also, the school provides a consultation service to USAF personnel and members of certain allied nations.

The school provides worldwide epidemiological consultation, a reference/referral clinical laboratory service, and a full-time residency program in aerospace medicine for its staff. Education for medical personnel is a big part of the school's program and many courses and training programs are held continuously throughout the year to keep Air Force personnel up to date on new techniques and procedures.

Air Force Human Resources Laboratory (AFHRL)

BROOKS AFB, TX--AFHRL conducts research, exploratory development and advanced development programs in manpower and personnel, aircraft and flight simulator training, technical training and logistics systems technologies. The lab's work is carried out by several divisions located at bases around the country.

The lab's technologies are used throughout the Air Force, beginning with initial selection for active duty. Advanced training technologies are employed, for example, by Air Training Command for technical training, by the Tactical Air Command for flight simulator training, and by the Military Airlift Command for aircrew training.

USAF Occupational and Environmental Health Laboratory (OEHL)

BROOKS AFB, TX--This lab provides professional consultation, specialized laboratory services and operational field support to assist the Air Force in managing occupational, radiological and environmental health programs.

OEHL uses a multidisciplinary approach in providing consultation to Air Force organizations concerned with environmental problems common to all.

Air Force Drug Testing Laboratory (AFDTL)

BROOKS AFB, TX--The Air Force Drug Testing Laboratory is the single Air Force agency which implements the Army-Air Force drug abuse detection program.

Air Force Aerospace Medical Research Laboratory (AFAMRL)

WRIGHT-PATTERSON AFB, OH--AFAMRL conducts behavioral and biomedical research to define the limits of human tolerance and the degradation of human performance under the conditions of environmental stress associated with aerospace operations. The laboratory investigates the relationship of man to machine and the weapons for optimum man-machine and man-weapon integration.

Biotechnology research and development focuses on biodynamics, human engineering, combined aerospace stress effects and toxic hazards. The lab has also become a center of excellence for noise research. In addition to its research facilities, the lab has Thomas domes for toxicology research, the Dynamic Environment Simulator for air combat stress and performance modeling and a 250-foot indoor track with both high and low-G deceleration sled capability for development of impact protection systems.

Wilford Hall USAF Medical Center

LACKLAND AFB, TX--Wilford Hall USAF Medical Center is the Air Force's largest and most modern medical center. The center, with a 1,000 bed capacity and a professional staff of nearly 4,000, is the major medical and surgical referral center for the Air Force.

The center's four missions are: healthcare, education, research, and readiness. More than one million patients are treated annually in 78 clinical specialties and more than 50 percent of Air Force residency and fellowship programs for MDs are at Wilford Hall. There are approximately 100 research projects in progress annually. A $6 million clinical investigation facility was recently completed which will greatly enhance research efforts.

Center personnel can deploy worldwide with 72 hours notice, prepared to establish a 250 or 500 bed field hospital.

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC)

ARNOLD AFS, TN--AEDC operates the most advanced and largest complex of aerospace flight simulation test facilities in the world. The center's mission is to ensure that aerospace hardware -- aircraft, missiles, spacecraft, jet and rocket propulsion systems, and other components -- will work right the first time they fly.

AEDC operates some 40 test units in which flight conditions can be simulated from sea level to altitudes of 1000 miles (1600 km) and from subsonic velocities to more than 20,000 mph (32,000 km/h). Equipment being tested ranges in size from small-scale models to full-scale vehicles with propulsion systems installed and operating.

Some engineering development for virtually every major United States aerospace system has been supported by tests at the center. In addition, a number of unexpected problems encountered in the operational use of systems have been quickly and economically solved through follow-on testing at AEDC. Tests are conducted for the military, NASA, aerospace industry contractors and other federal agencies.

Construction of the Aeropropulsion Systems Test Facility at Arnold center began in 1977. The facility is scheduled to be operational in 1985.

AIR FORCE FLIGHT TEST CENTER (AFFTC)

EDWARDS AFB, CA--AFFTC plans, conducts, supports and evaluates tests of manned and unmanned aircraft and aerospace research vehicles to include performance, flying qualities and subsystem performance, reliability, maintainability and functional capability under climatic extremes.

The center:

--Conducts development testing of advanced and special mission parachutes.

--Tests and evaluates remotely piloted vehicle (RPV) midair recovery systems.

--Operates the USAF Test Pilot School, the Edwards Flight Test Range and the Utah Test and Training Range.

--Operates and maintains ranges, instrumentation, and special technical support facilities needed for its mission.

Located approximately 100 miles (160 km) northeast of Los Angeles on the western edge of the Mojave Desert, AFFTC boasts one of the largest ground complexes, 301,000 acres (1,220 ha), in the Air Force, and has at its immediate disposal more than 15,000 sq. mi. (38,850 sq km) of restricted airspace in which to conduct its test activities.

Within the Edwards reservation are 65 sq. mi. (168 sq km) of usable landing area on two dry lake beds with runways. Additionally, ideal flying weather and a semi-isolated location combine to produce an environment conducive to safe, successful flight test efforts. Major projects currently under evaluation include the B-1B, the B-52 integrated weapons system, Air-Launched Cruise Missile, F-15, F-16, F-16XL, F-20 and A-10 aircraft.

Personnel and facilities of AFFTC play key roles in flights of the Space Shuttle. Edwards AFB served as the landing site for the four Space Shuttle orbital flight tests and for many of the missions which followed. Edwards AFB is the primary alternate landing site for Space Shuttle flights.

NASA's Dryden Flight Research Center, the Air Force Rocket Propulsion Laboratory, the U.S. Army Aviation Engineering Flight Activity and approximately 60 military tenant and civilian contractor agencies are located at AFFTC.

DEPUTY CHIEF OF STAFF FOR SCIENCE AND TECHNOLOGY (HQAFSC/DL)

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)

BOLLING AFB, D.C.--AFOSR is the single manager of the Air Force research program and the primary Air Force agency for the extramural support of fundamental scientific research. AFOSR sponsors research leading to new scientific knowledge and understanding in those areas of science which offer the greatest potential for improving Air Force present and future operational capabilities.

AFOSR maintains liaison with the scientific and industrial communities, Air Force research, development, and operational elements, and other U.S. government agencies to identify research needs and to accelerate the dissemination of research results to ensure rapid integration of scientific advances into Air Force technology. In carrying out this mission, AFOSR awards grants and contracts and sponsors in-house programs in those areas of science relevant to the needs of the operational Air Force.

Frank J. Seiler Research Laboratory

USAF ACADEMY, CO--The Seiler Laboratory is charged with planning and executing basic research programs in lasers, aero-mechanics and chemistry; supporting research by USAF Academy faculty and cadets; and functioning as the AFSC focal point for USAF Academy research and development efforts pursued under AFSC sponsorship.

European Office of Aerospace Research and Development

LONDON, ENGLAND--The European Office of Aerospace Research and Development supports Air Force research and development laboratories, divisions, centers, and systems program offices by acquiring unique and important research technology of potential and direct usefulness to the Air Force. It provides a liaison with members of the scientific and engineering communities in Europe, the Middle East, India and Africa. The overall objective of the office is to identify foreign technological, engineering, and manufacturing advances and to use available resources to place them at the disposal of Air Force research and development organizations.

Air Force Office of Scientific Research Far East

TOKYO, JAPAN--The Office of Scientific Research Far East is the Far East equivalent of the European Office described above. Its geographic area of responsibility is bounded by Japan and Korea on the north and Australia and New Zealand on the south. The office is co-located with the Far East Office of Naval Research with which it closely cooperates.

HQ AIR FORCE ENGINEERING AND SERVICES CENTER ENGINEERING AND SERVICES LABORATORY (HQ AFESC/RD)

TYNDALL AFB, FL--Although not an AFSC laboratory, the Engineering and Services Laboratory is the lead Air Force activity for research, development, test and evaluation (RDT&E) for civil engineering and environmental quality technology. In support of the director of laboratories, it is the designated focal point for environmental quality technology and the lead laboratory for R&D efforts in facility energy use. In addition, management is exercised over the Rapid Runway Repair Program.

Environmental quality RDT&E includes studies and analyses of methods and techniques to detect, assess, control and abate Air Force generated environmental pollution problems. Research areas include water and waste water quality, air quality, ecosystems technology, environmental planning, alternate energy systems and environmental chemistry. This work has direct application to similar problems facing local and state governments; as such, a direct transfer of the Engineering and Services Laboratory efforts is available to civilian organizations as well as DOD and other government agencies.

AFSC NCO ACADEMY/LEADERSHIP SCHOOL

KIRTLAND AFB, NM--The AFSC Non-commissioned Officer Academy and Leadership School has been in continuous operation for 30 years -- longer than any other Air Force NCO academy.

In January 1955 its doors were opened to the first class of students and since then 200 classes -- more than 15,900 NCOs -- have graduated. The academy has been awarded the Air Force Outstanding Unit Award three times -- in 1964, 1969 and 1977.

Emphasis in the academy's curriculum is placed on self discipline, communication skills, world affairs, military justice and the Air Force history and standards.

The NCO Academy conducts four classes a year, each lasting six weeks. Each class has 90 NCOs, the majority of whom are assigned to AFSC organizations throughout the United States. The remaining students come from seven other major commands. In the past, Army and Navy NCOs have attended the academy.

In addition to the NCO Academy, the command's NCO Leadership School conducts four classes each year. Each class has 90 NCOs and is four weeks long. These classes are designed for sergeants and staff sergeants with four to 15 years of service. The Leadership School gives the NCOs exposure to leadership approaches, management skills, effective communications and Air Force standards, stressing an overall awareness of first-line supervisory responsibilities.

Both the NCO Academy and the NCO Leadership School are important phases of the Air Force's four-tier professional military education program offered to the NCO corps.

AFSC SYSTEMS ACQUISITION SCHOOL

BROOKS AFB, TX--The AFSC Systems Acquisition School (SAS) was established in October 1982 to provide a basic course in systems acquisition for new officers and civilians entering that career field for the first time.

The school presently offers two courses: "Introduction to Systems Acquisition" (INTRO) and "Computer Resources Acquisition Course" (CRAC). The INTRO course is offered ten times during the year to 70 students per class. The CRAC is offered four times a year to 30 students per class. In October 1985, the school will take over from the Air Force Institute of Technology (AFIT) the responsibility of providing the entry level course for all systems acquisition officers throughout the Air Force.

The school has been responsible for making new officers and civilians in the systems acquisition field more productive in a shorter period of time.

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